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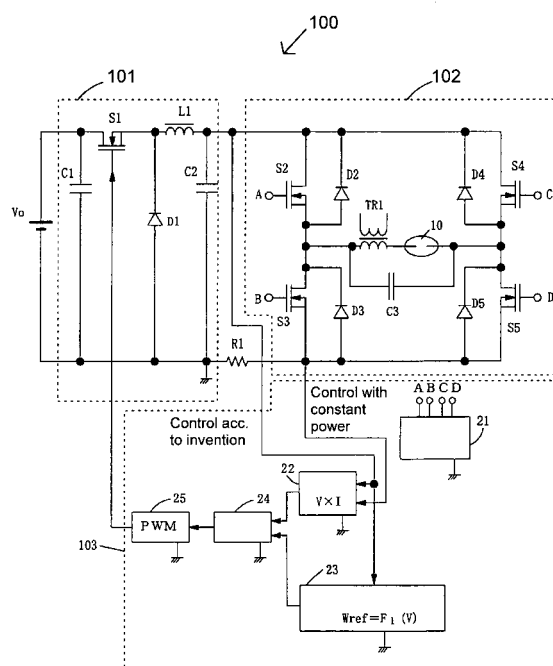
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(54) **Device for operating a high pressure discharge lamp**

(57) Alternating current with rectangular waves is supplied from an operating device to an ultra-high pressure discharge lamp in which located within a silica glass discharge vessel is a pair of opposed electrodes separated by a distance of less than or equal to 1.5 mm. A discharge vessel is filled with greater than or equal to 0.15 mg/mm³ mercury and bromine in the range of 10⁻⁶ μmol/mm³ to 10⁻² μmol/mm³. In the operating device, a multiplication device computes the discharge wattage supplied to the discharge lamp and controlled so that in the case of a reduction of the operating voltage of the discharge lamp the discharge wattage is reduced, and that in the case of an increase of the operating voltage of the discharge lamp the discharge wattage is increased.

Fig. 2





European Patent
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EUROPEAN SEARCH REPORT

Application Number
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A	WO 92/12611 A (WELCH ALLYN, INC) 23 July 1992 (1992-07-23) * page 7, lines 8-28 * * page 8, line 21 - page 9, line 24 * * page 11, line 4 - page 12, line 33 * * figures 2-5 * -----	1-6	H05B41/292
D,A	US 2001/038267 A1 (ONO SHUNSUKE ET AL) 8 November 2001 (2001-11-08) * column 2, line 45 - column 3, line 31 * * column 5, lines 51-58 * * column 11, line 54 - column 12, line 16 * * column 13, line 61 - column 14, line 44 * * figure 14 * -----	1-6	
A	US 6 232 725 B1 (DERRA GUNTHER H ET AL) 15 May 2001 (2001-05-15) * the whole document * -----	1-6	
A	US 5 608 294 A (DERRA ET AL) 4 March 1997 (1997-03-04) * column 5, line 50 - column 6, line 38 * * figures 1-3 * -----	1-6	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H05B
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		6 September 2005	Silva, João Carlos
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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